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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,572	09/22/2003	Motokazu Kobayashi	03500.017565 6450	
5514 7	7590 11/15/2005	EXAMINER		INER
FITZPATRICK CELLA HARPER & SCINTO			MRUK, GEOFFREY S	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112		ART UNIT	PAPER NUMBER	
			2853	

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/665,572	KOBAYASHI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Geoffrey Mruk	2853			
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16 A	Responsive to communication(s) filed on <u>16 August 2005</u> .				
2a)⊠ This action is FINAL . 2b)☐ This	∑ This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•			
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) 7 is/are objected to. 8) Claim(s) are subject to restriction and/or 					
Application Papers	•				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the lead of a cepted or b) objected to by the lead in abeyance. See the cepted of the drawing (s) is objected if the drawing (s) is objected or by the lead of the drawing (s) is objected or by the lead of t	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11 October 2005</u>. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate latent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Derbyshire (US 3,472,776).

With respect to claim 1, Derbyshire discloses a composition (Column 3, lines 71-75; Column 4, lines 1-74) for forming a piezoelectric film (Column 1, line 70) comprising a dispersoid obtained from metallic compound (Column 4, lines 17-22), wherein the content of hafnium contained in said composition is 3,000 ppm or less (Column 4, lines 25-34).

With respect to claim 2, Derbyshire discloses a metallic compound selected from the group consisting of organometallic alkoxides, organometallic complexes, metal organic salts, and metal hydroxides (Column 4, lines 25-34).

With respect to claim 3, Derbyshire discloses the content of hafnium contained in said composition is 2,000 ppm or less (Column 4, lines 25-34).

With respect to claim 4, Derbyshire discloses a method for producing a piezoelectric film comprising the steps of:

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coating a substrate with a composition for forming said piezoelectric film, to form
a coating film, said composition containing a dispersoid obtained from a metallic
compound, and the content of hafnium in said composition being 3,000 ppm or

less;

drying the coating film; and

sintering the dried coating film to obtain said piezoelectric film (Column 9, lines

61-75; Column 10, lines 1-75; Column 11, lines 1-21)

With respect to claim 5, Derbyshire discloses a piezoelectric element (Column 1, line

70) comprising a piezoelectric film held between a lower electrode (Column 9, lines 57-

59) and an upper electrode (Column 9, lines 57-59), wherein said piezoelectric film is

produced by the method of claim 4. Although Derbyshire does not explicitly diagram a

piezoelectric film between a lower electrode and an upper electrode (Column 9, lines

57-59), they would necessarily be present in order to form piezoelectric materials into

transducers.

With respect to claim 6, Derbyshire discloses the content of hafnium contained in

said piezoelectric film held between the lower electrode and the upper electrode is

3,000 ppm or less (Column 4, lines 25-34).

Response to Arguments

The claim rejections dated 16 May 2005 are withdrawn in view of applicant's

remarks.

Allowable Subject Matter

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is 571 272-2810. The examiner can normally be reached on 7am - 330pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GSM 11/12/2005

MANISH S. SHAH PRIMARY EXAMINER